Oracle Integration
ERP Outbound BIP Report

Contents

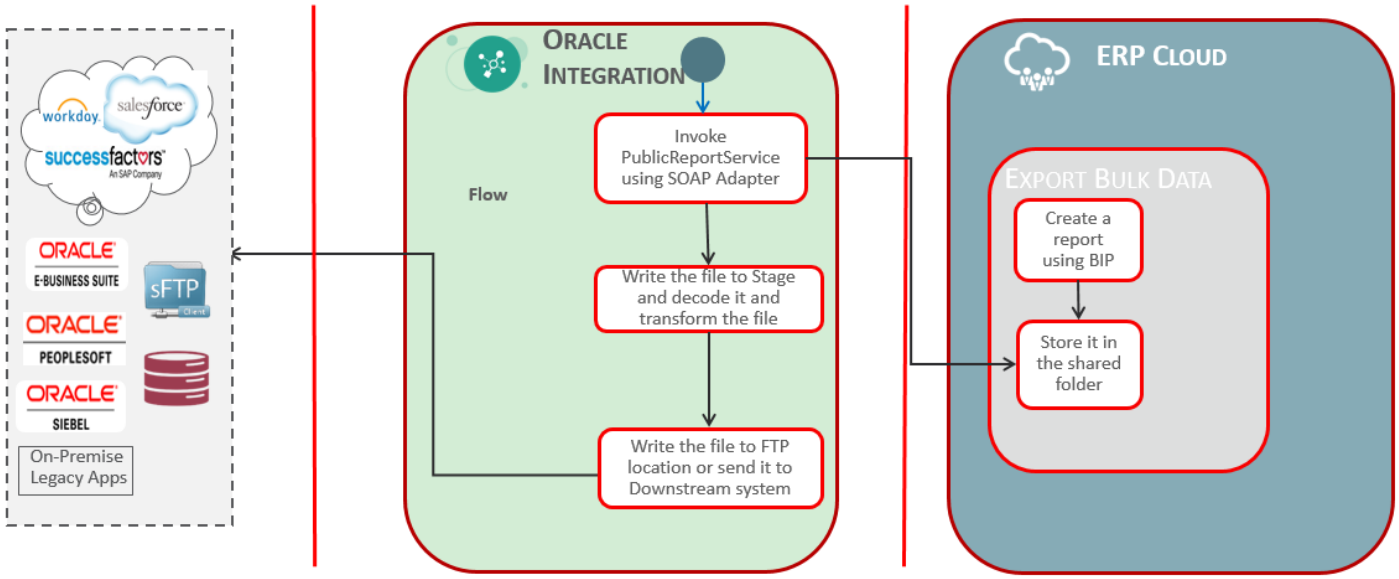
EXECUTIVE SUMMARY

Oracle Integration provides native connectivity to Oracle and non-Oracle Software as a Service (SaaS) and On-premises applications, such as Oracle ERP Cloud, Oracle Service Cloud, HCM Cloud, Salesforce.com, Workday, EBS, SAP, NetSuite and so on. OIC adapters simplify connectivity by handling the underlying complexities of connecting to applications using industry-wide best practices. You only need to create a connection that provides minimal connectivity information for each system.

STORYLINE AND PERSONAS

This use case explores the use of OIC with ERP BIP report. User creates a report in ERP cloud using BIP and puts/shares it in shared folder. OIC connects to ERP BIP service and pulls the report, decodes the response, does the required transformations and writes it into the FTP location.

The following diagram illustrates the proposed interaction between the systems involved in this use case.



OBJECTIVE

This document walks you through the steps needed to replicate this use case in your environment

Prerequisites

You will need access to the following applications and products:

- Oracle Integration
- ERP Cloud
- FTP Server

Use case

Call BIP Report service using SOAP Adapter, decode the response, and write it to a CSV file in the FTP Location using FTP adapter

Logical flow of the integration

- Create a report in ERP cloud using BIP service and store it under shared folder, and make a note of folder structure and report name.
- Create a connection using FTP Adapter
- Create a connection using SOAP adapter
- Create integration flow to call the report, decode it and store it in the FTP location

Lab Environments

- **ORACLE INTEGRATION Login**
  - **Refer** ERPIntegrationWorkshopEnv.txt
- **ERP Cloud Login**
  - **Refer** ERPIntegrationWorkshopEnv.txt
- **Naming convention**
  - **Note that accounts are shared between all users**
  - **To avoid conflict between Lab users, append your class id and student id to artifacts and you can get these ids from the instructor**

Task Overview

- Verify connectivity to ORACLE INTEGRATION and ERP Cloud
- Create 2 connections in ORACLE INTEGRATION
  - FTP Connection
  - ERP cloud connection using SOAP adapter
- Build integration in ORACLE INTEGRATION
- Test integration
- Validate results

Important

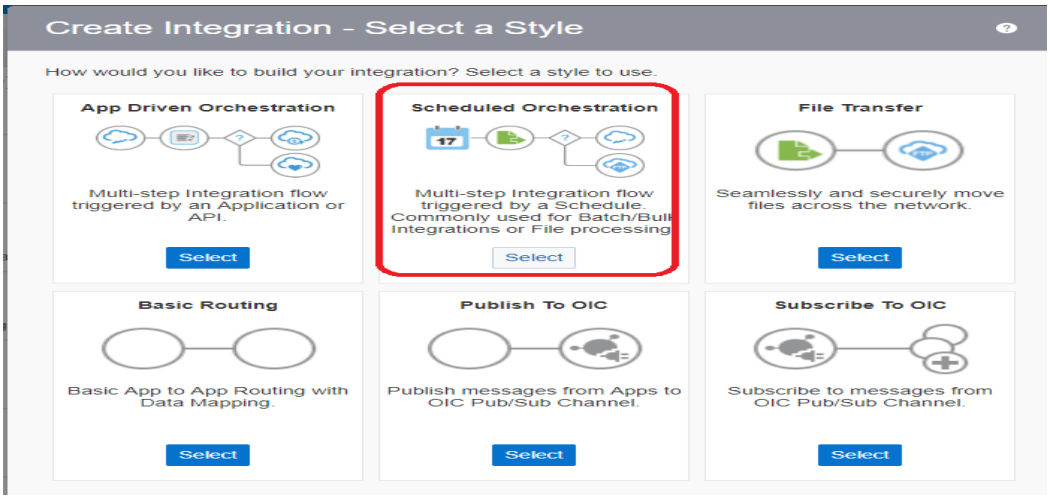
As the integration is being built, it is important to save it by clicking "Save" button on top-right after each activity or in-between long activities such as mapping. This makes sure that the changes are preserved in case of session timeouts.

Create SOAP Connection & FTP Connection

Note: Participants are requested to use existing connections (c 96 06 & FTP Conn 96 06) instead of creating new connection.

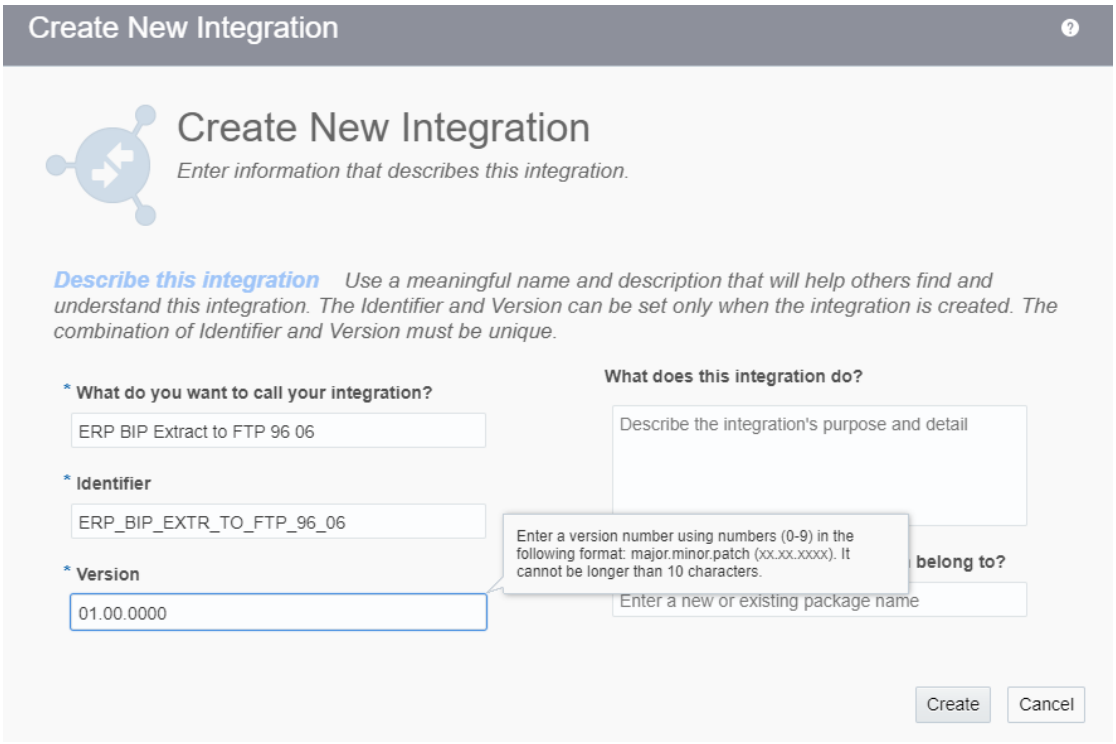
Create Integration Flow

1. Go to Integration Cloud console →Designer → Integrations →Click on Create
2. Select "Scheduled Orchestration" Style and click on Select

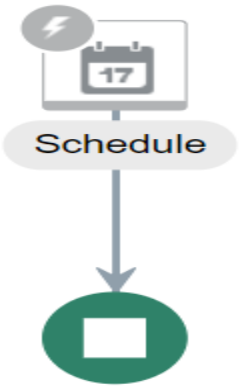


3. Provide Integration name "ERP BIP Extract to FTP "+<<ClassID>>+<<Studentid>> and package name as erp.report.lab and click on Create

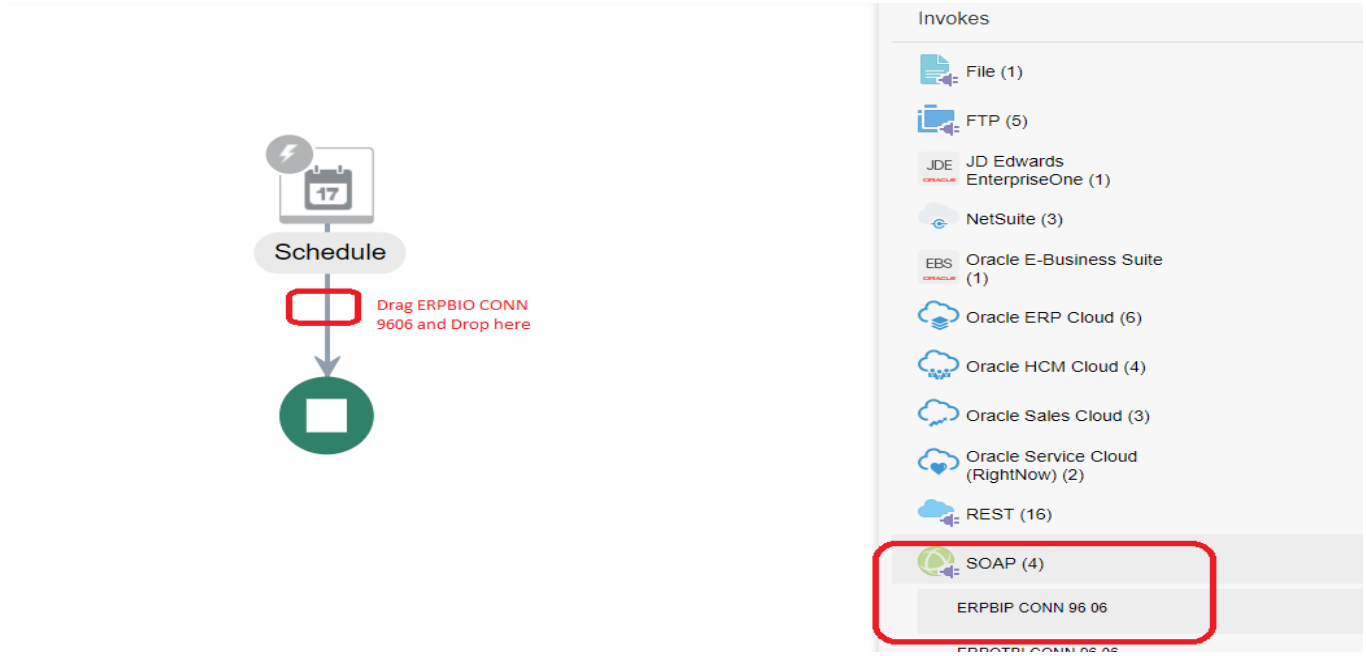
   Eg: ERP BIP Extract to FTP 96 06

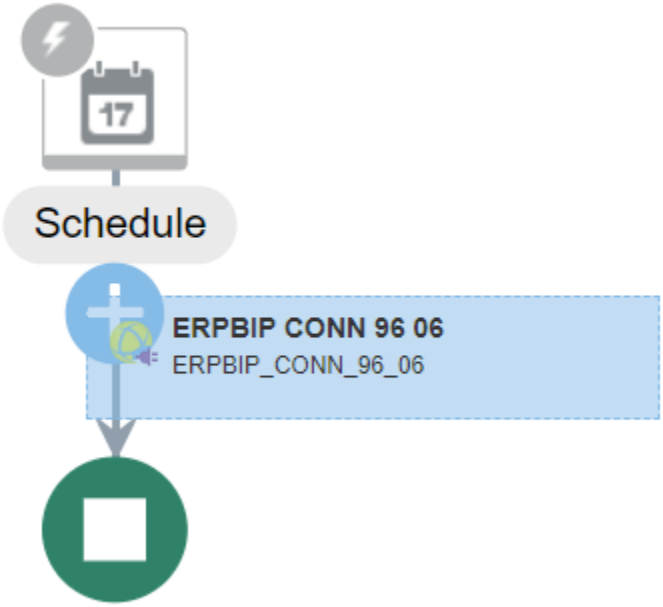


4. System displays the following screen

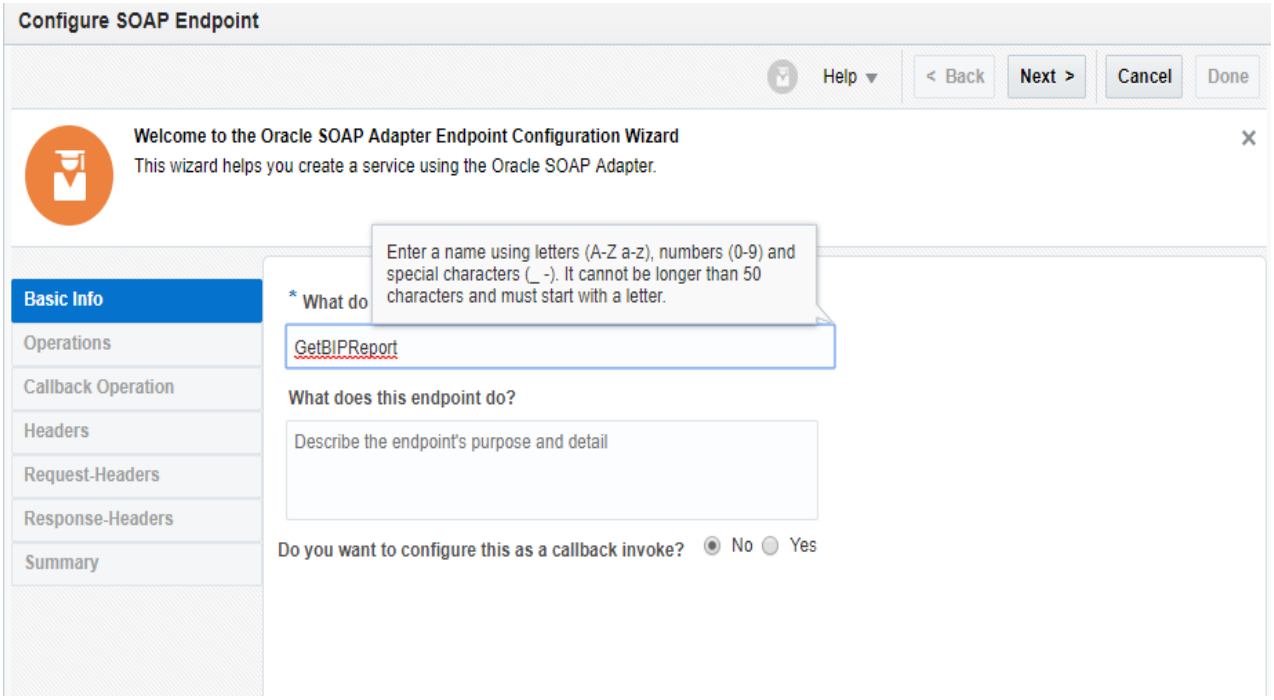


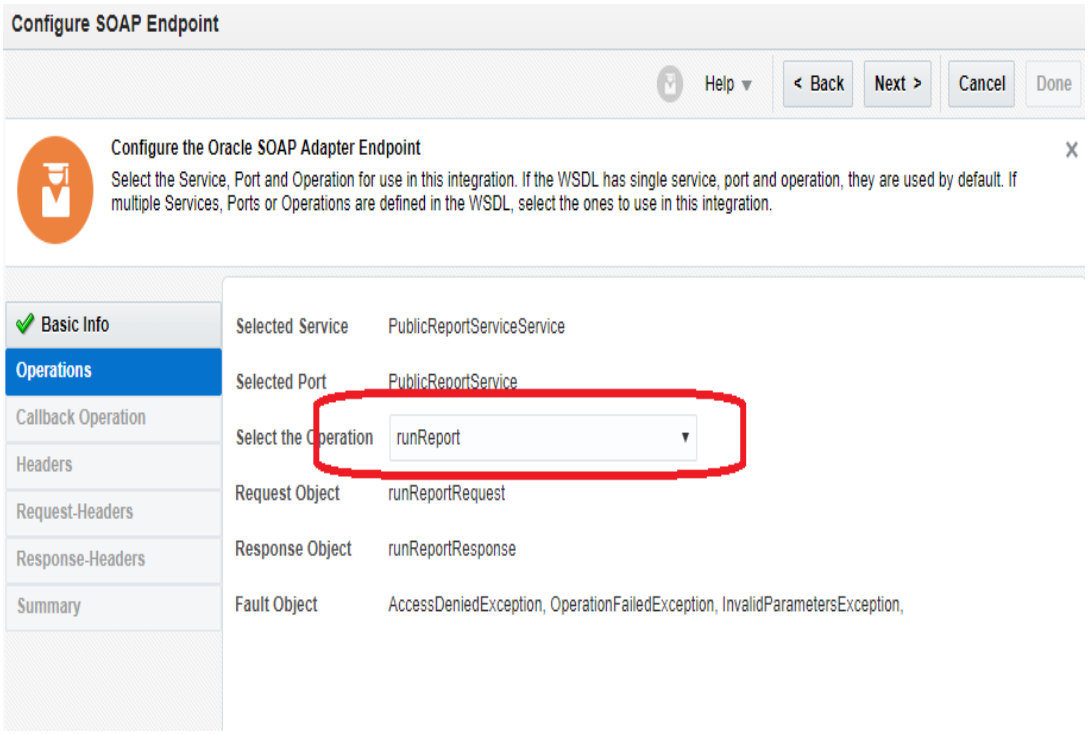
5. Click on Invokes which is on right side of the screen → Expand SOAP adapter → Select the adapter ERPBIP CONN 96 06 and drag and drop as per the below screen



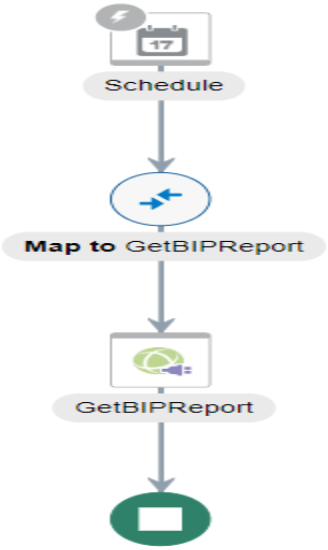


6. Enter the information as per the below screen and click on Next → Select runReport operation and click Next →Click Next and Click Done



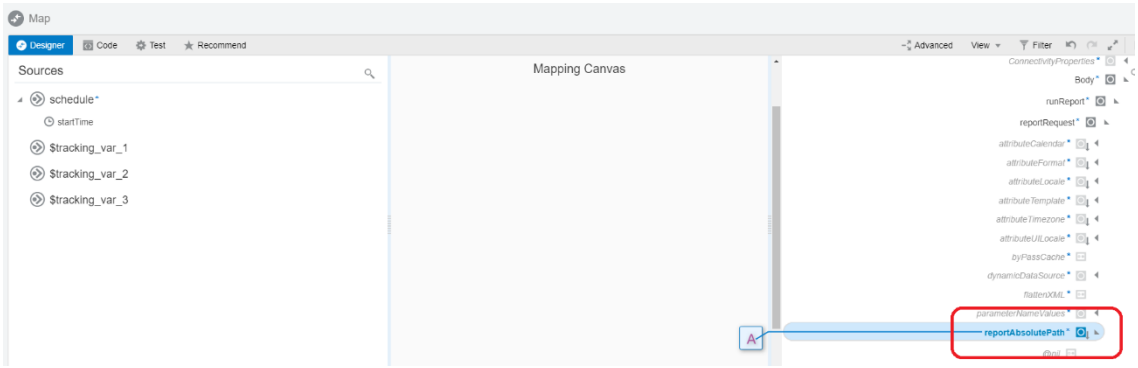


7. System displays the screen given below

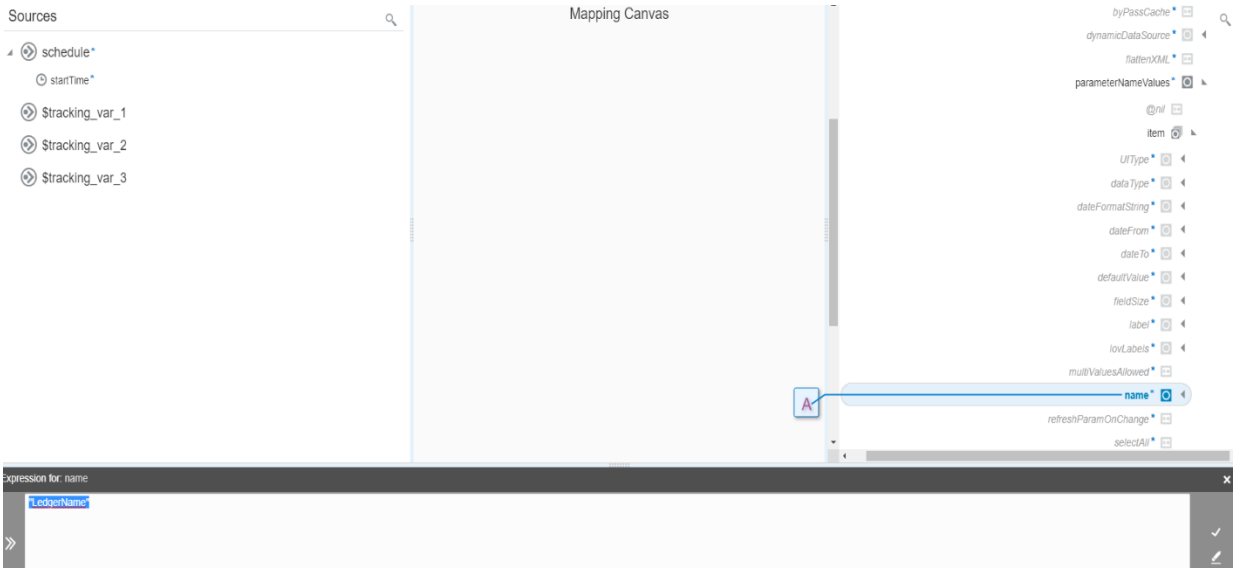


8. Click on Edit of 'Map to GetBIPReport' activity

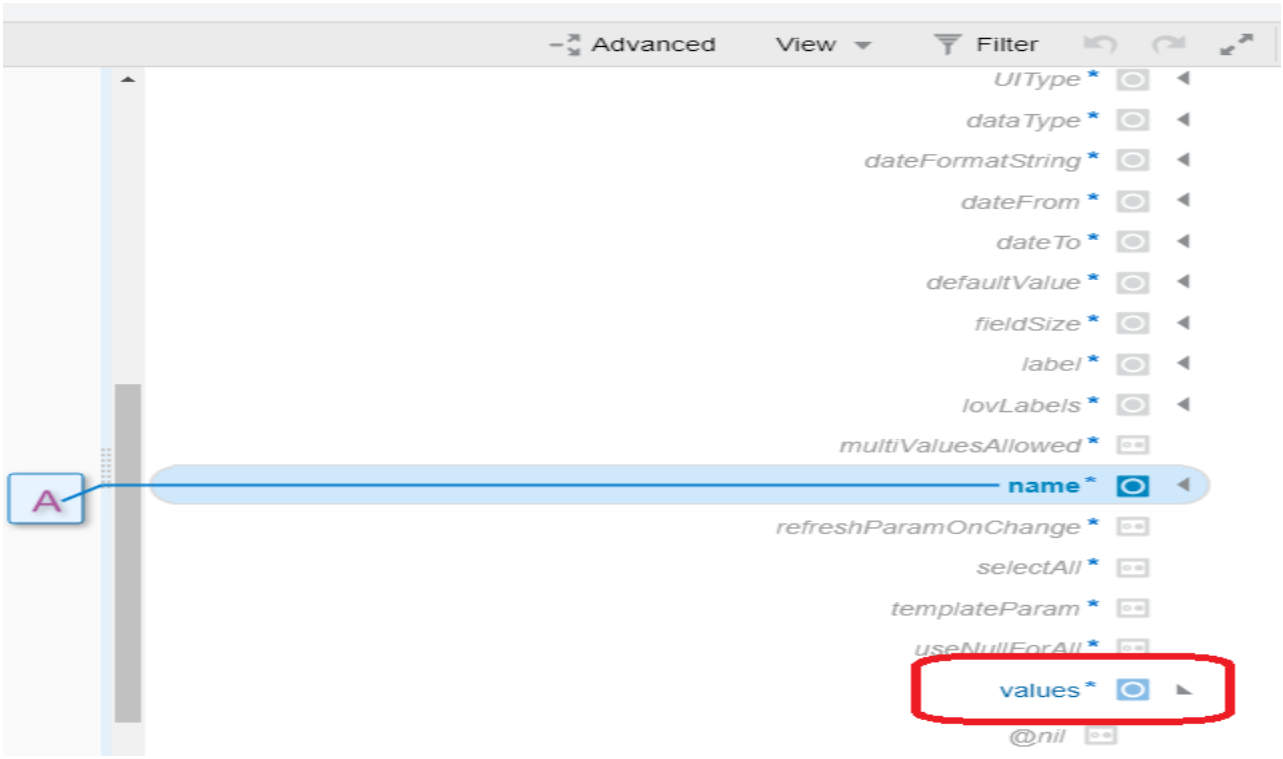
9. Expand OutboundSOAPRequestDocument→expand Body → expand runReport→ expand reportRequest → Right click on reportAbsolutePath →Click on 'Create Target Node' → Enter absolute path of the report as "/Custom/Financials/GLCCReport.xdo" and click on Save and close the expression editor.



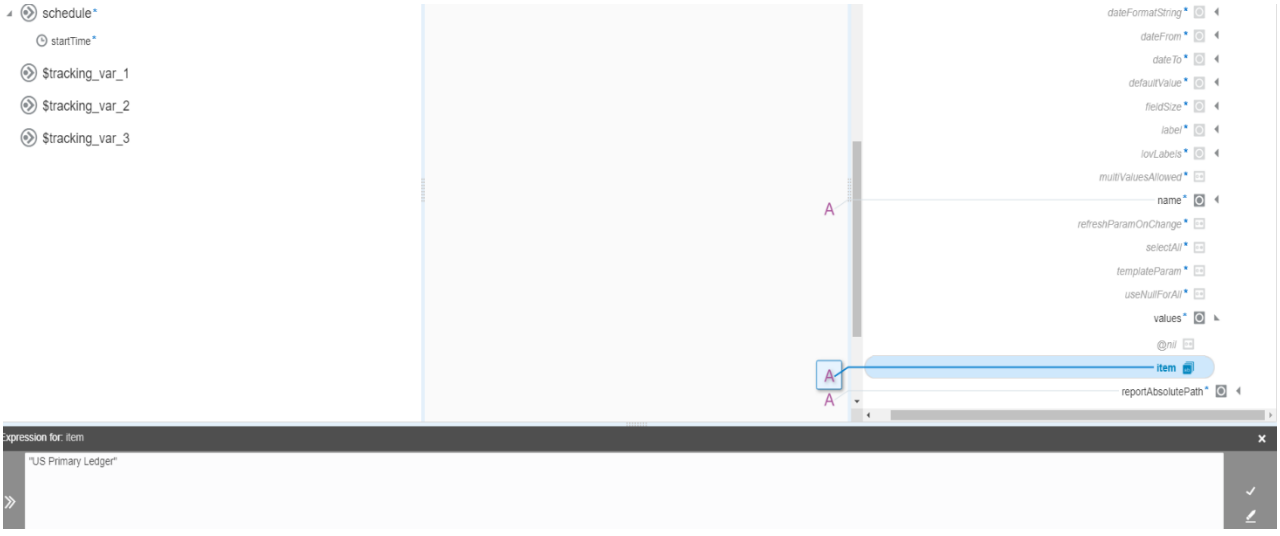
10. Expand parameterNameValues → expand item → right click on name → click on 'Target Node' → enter "LedgerName" and click on Save and close



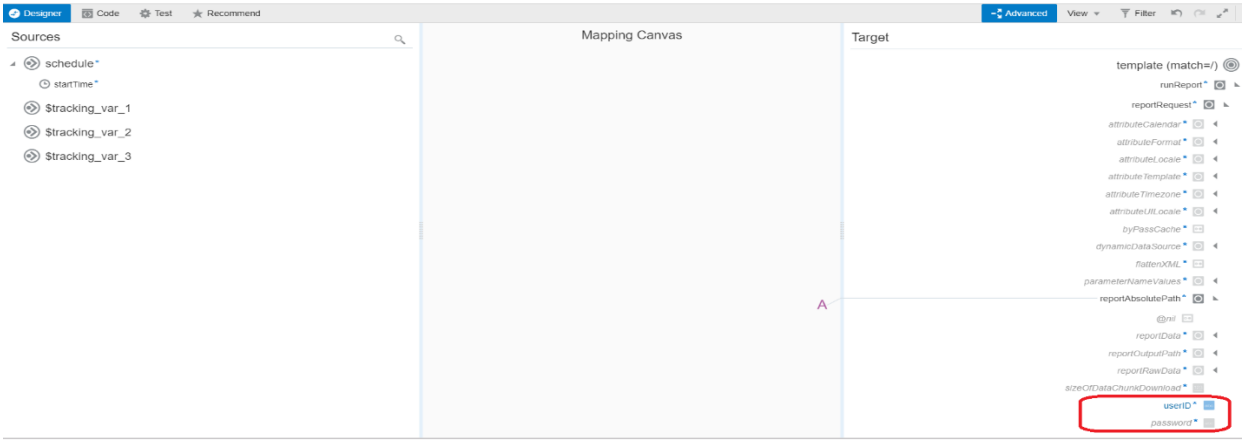
11. Expand values as per the below screen



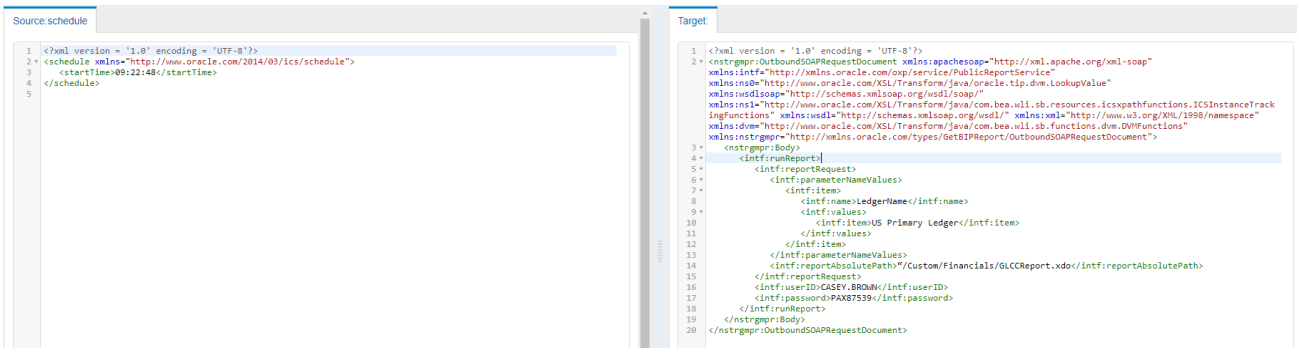
12. Right click on item → Click on ‘Create Target Node’ → Enter "US Primary Ledger" and click on Validate



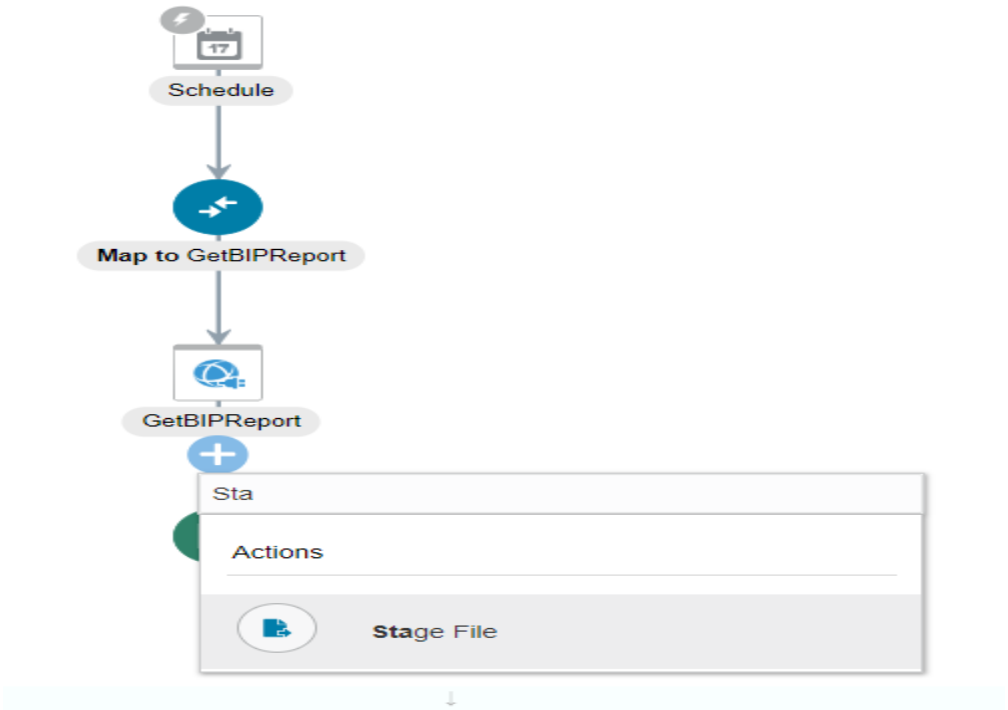
13. Right click on userId →Click on ‘Create Target Node’ → Enter “CASEY.BROWN” and save it and right click on password → Click on ‘Create Target Node’ → Enter ERP Cloud Password (Get the password from ERPIntegrationWorkshopEnv.txt) and click on Save and close the expression editor.



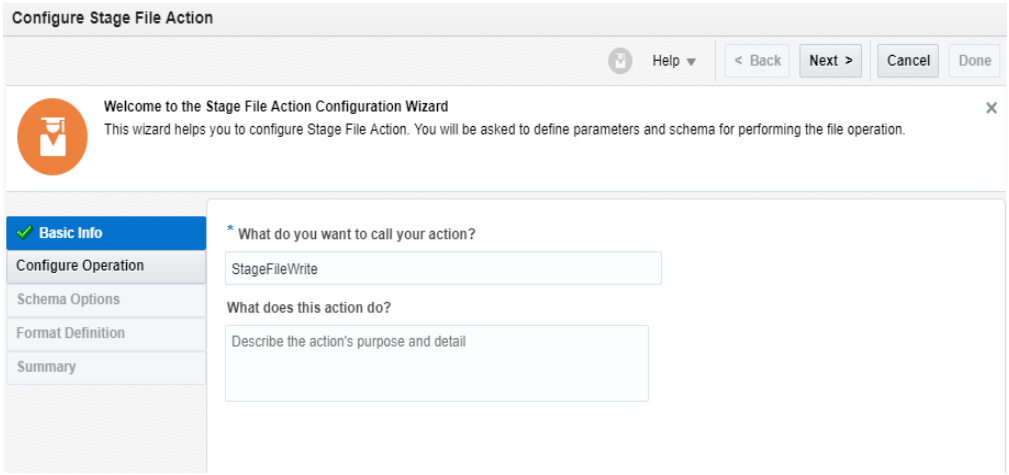
14. Click on Validate → If successful click on Test →Click on Generate Inputs →Click on Execute and check the Target to cross check the values, which you have mapped. If Validation fails, then please cross check your mappings

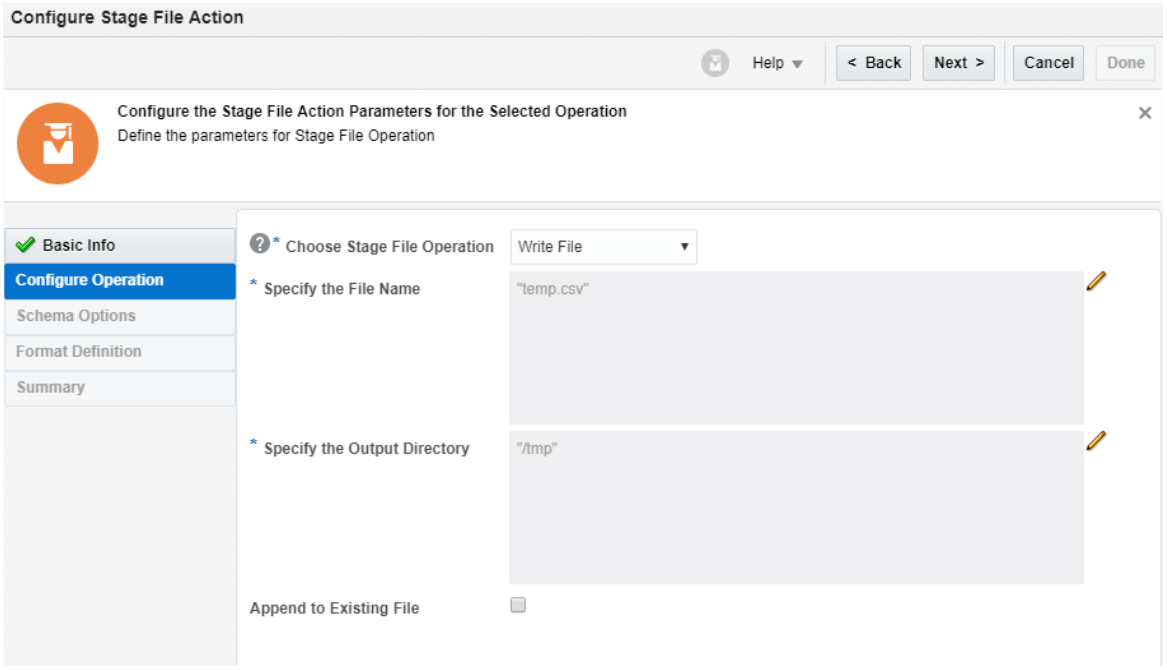


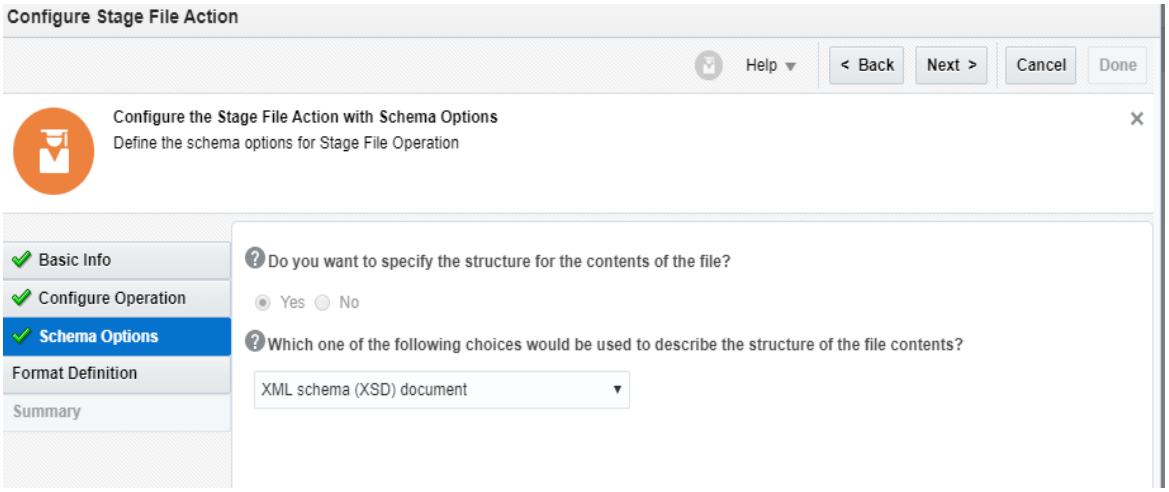
15. Click on Validate and Close
16. Click on + icon after GetBIPReport activity → Search for Stage File activity and click on it



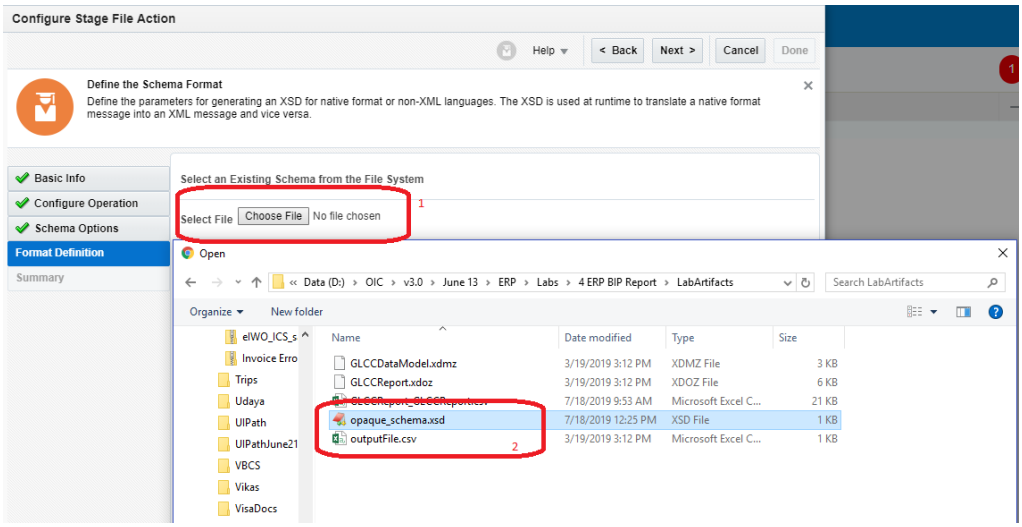
17. Enter the information as per the below screenshots



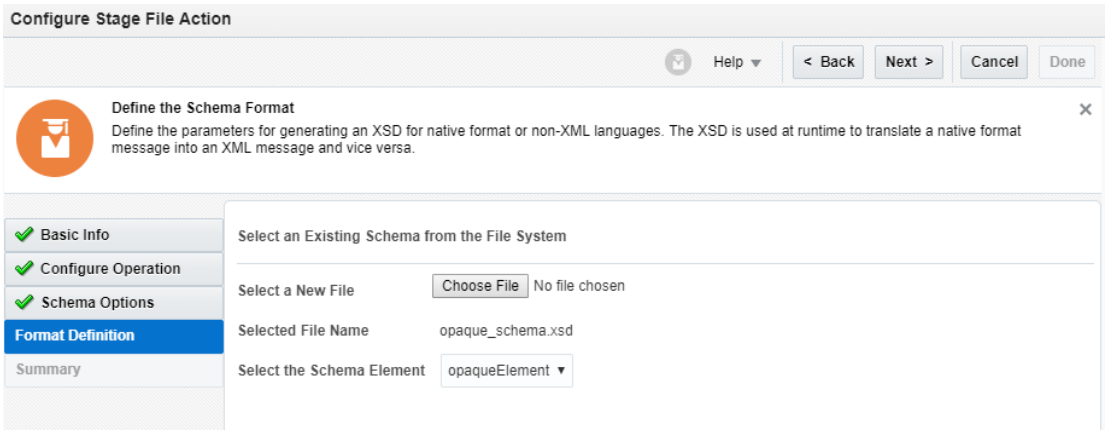




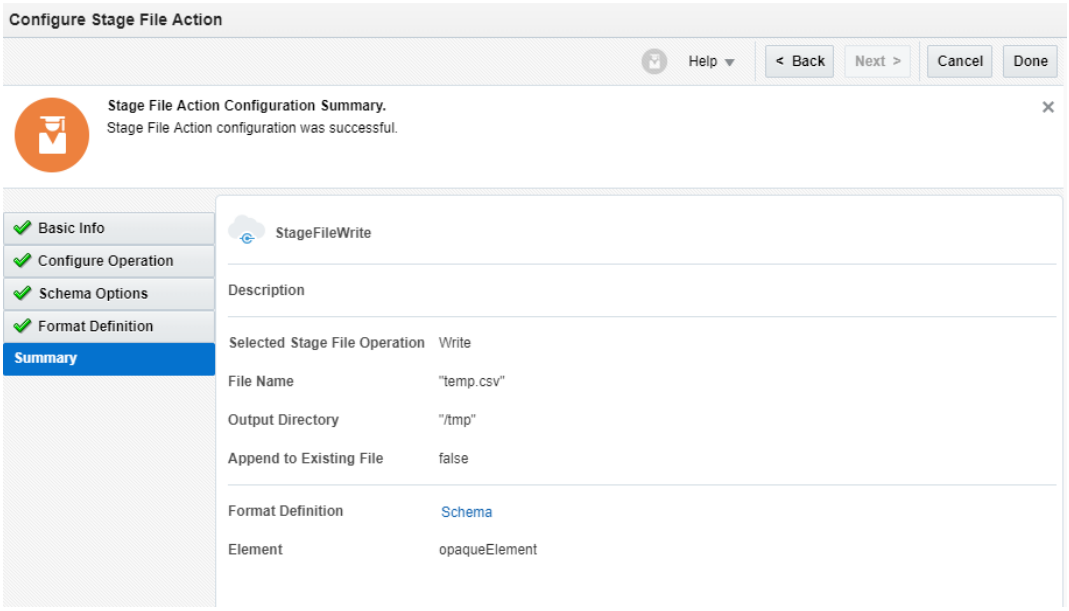
18. Select “opaque_schema.xsd” from the LabArtifacts folder as per the screenshot below.



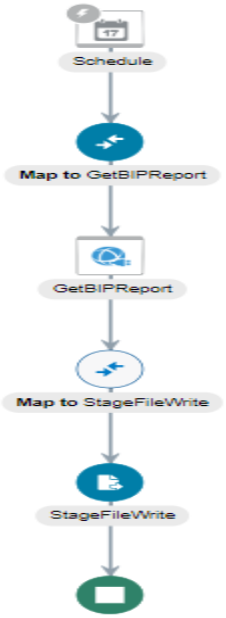
19. System displays the below screen → Click on Next



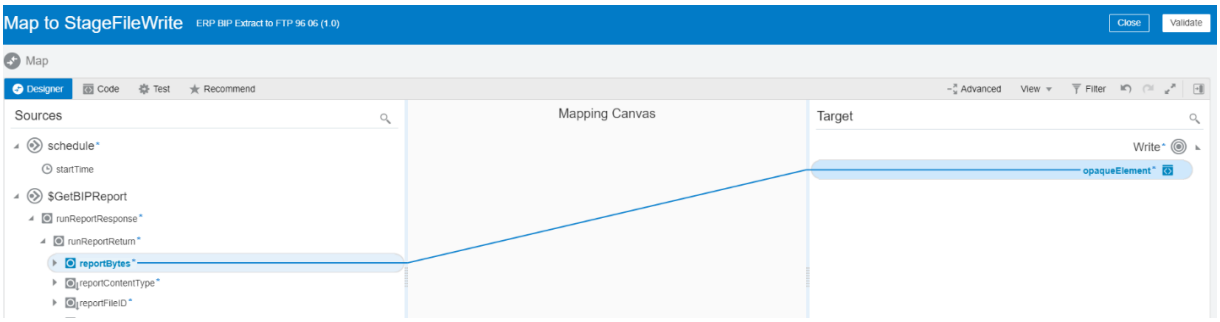
20. Look at the summary screen and click on Done



21. So far, Integration looks like the below screen.

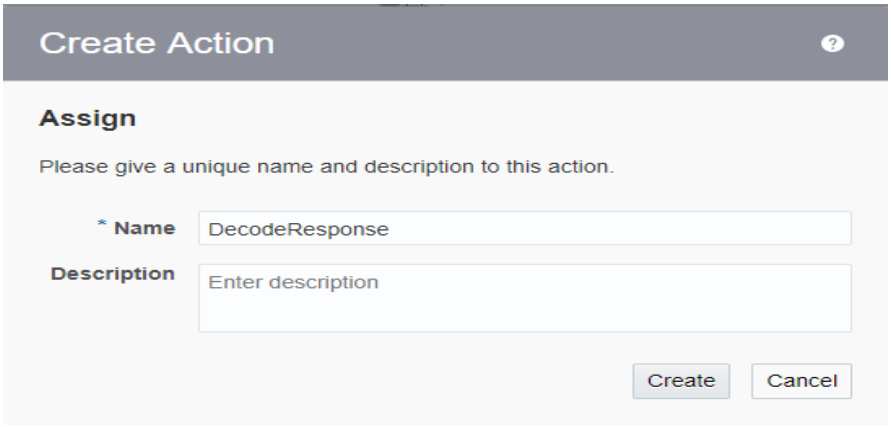


22. Edit “Map to StageFileWrite” activity and expand $GetBIPReport → expand runReportResponse→ expand runReportReturn → map reportBytes with opaqueElement in the target. And click on Validate and close. In addition, click on Save to save the integration flow.



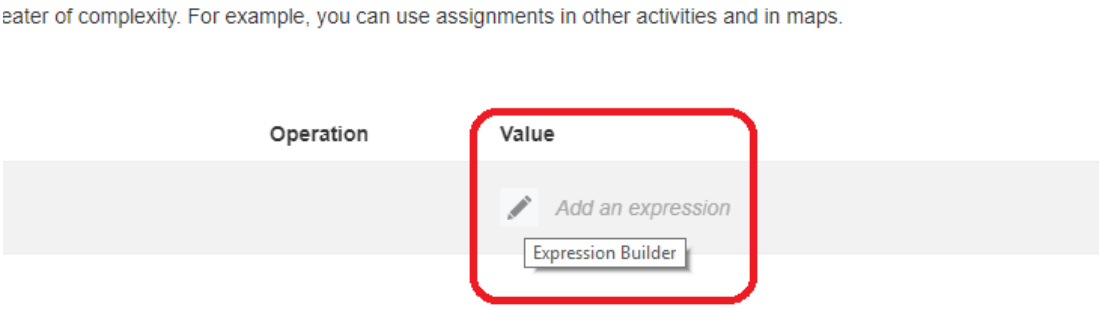
23. Click on Actions → Drag and Drop Assign activity below the 'StageFileWrite' activity as shown below.

24. Enter name of the activity as 'DecodeResponse'

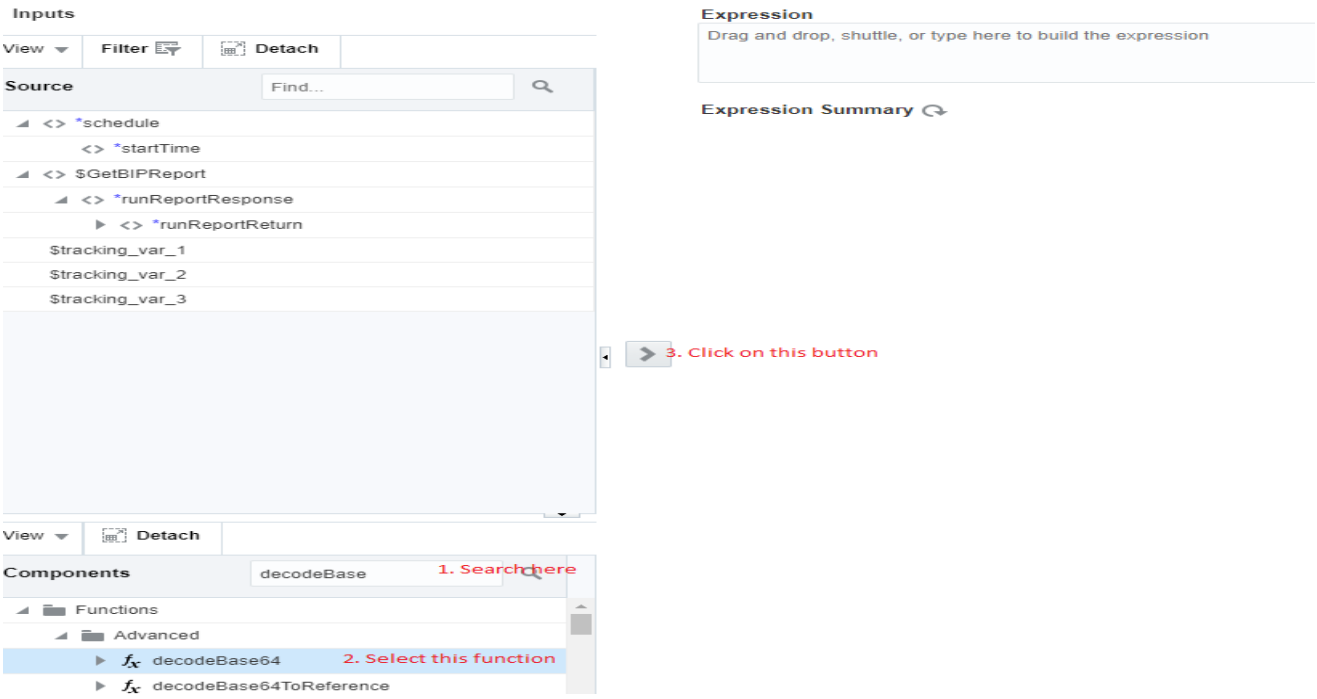


25. Click on + icon

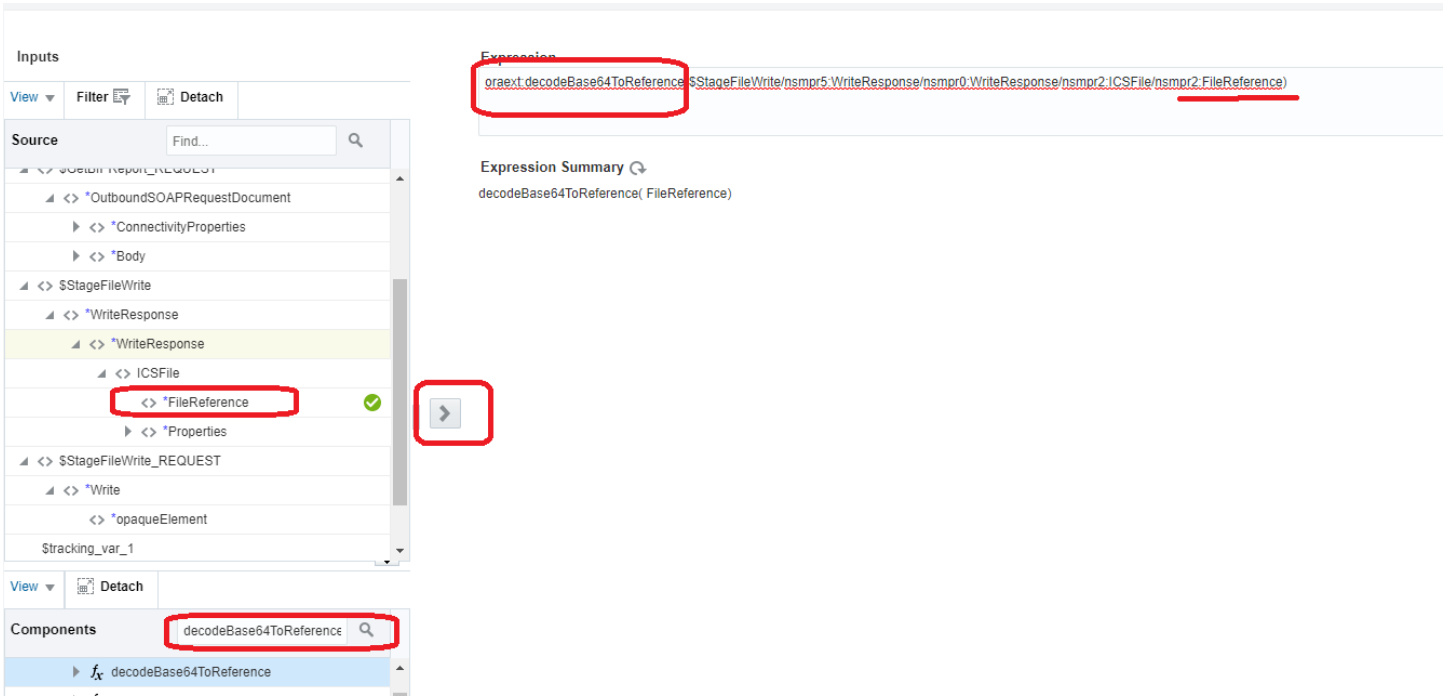
26. Click on Expression Editor under Value



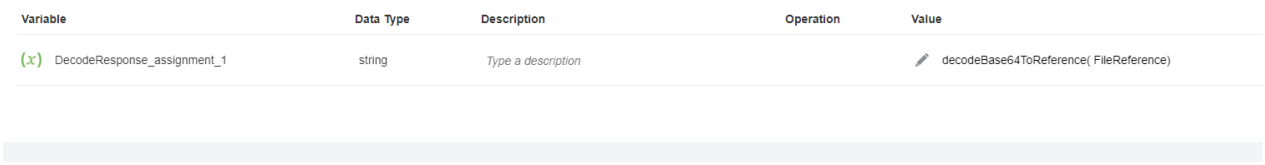
27. Enter 'decodeBase64ToReference' in search box and click on Search → Select 'decodeBase64ToReference' function → click on >



28. Delete 'encodedValue' from the expression editor → expand $StageFileWrite → expand WriteResponse → expand WriteResponse → expand ICSFile → select FileReference → Click on > Please cross check the below screenshot for your reference.

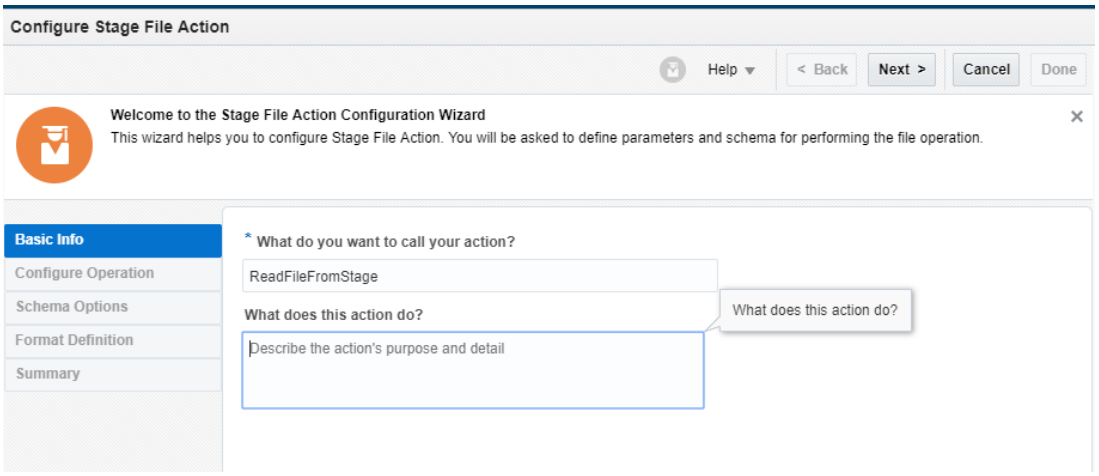


29. Click on Validate and Click on Close. System displays the following screen.

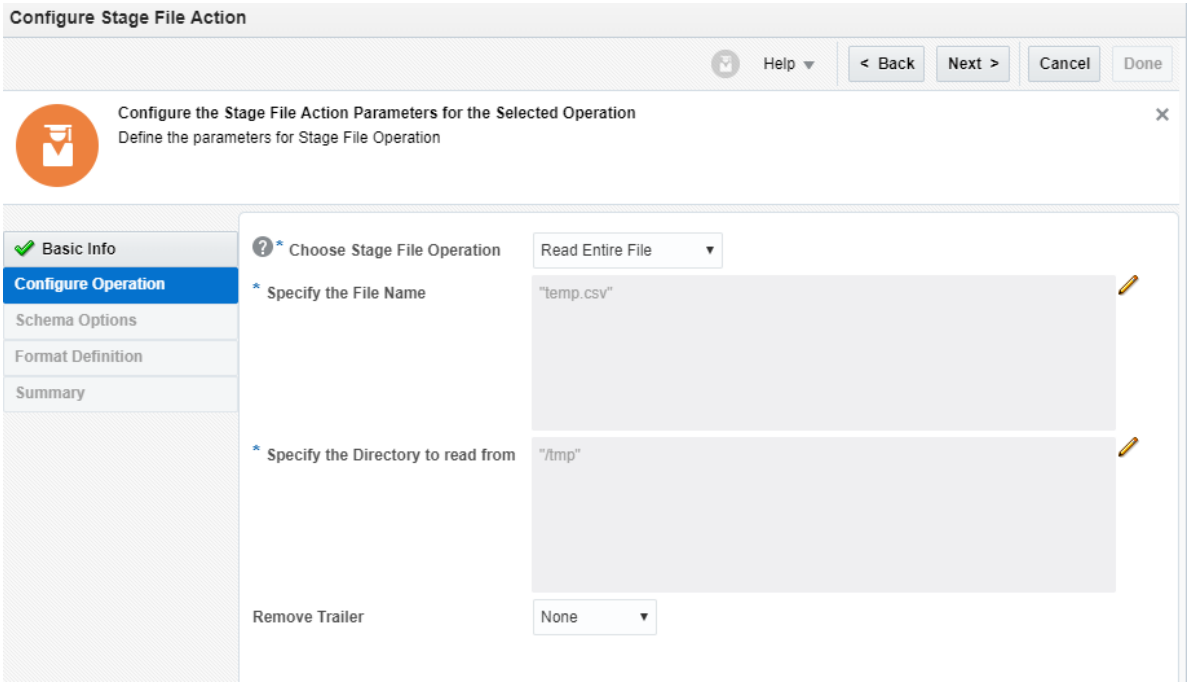


30. Click on Validate and Click on Close. System displays the following screen.

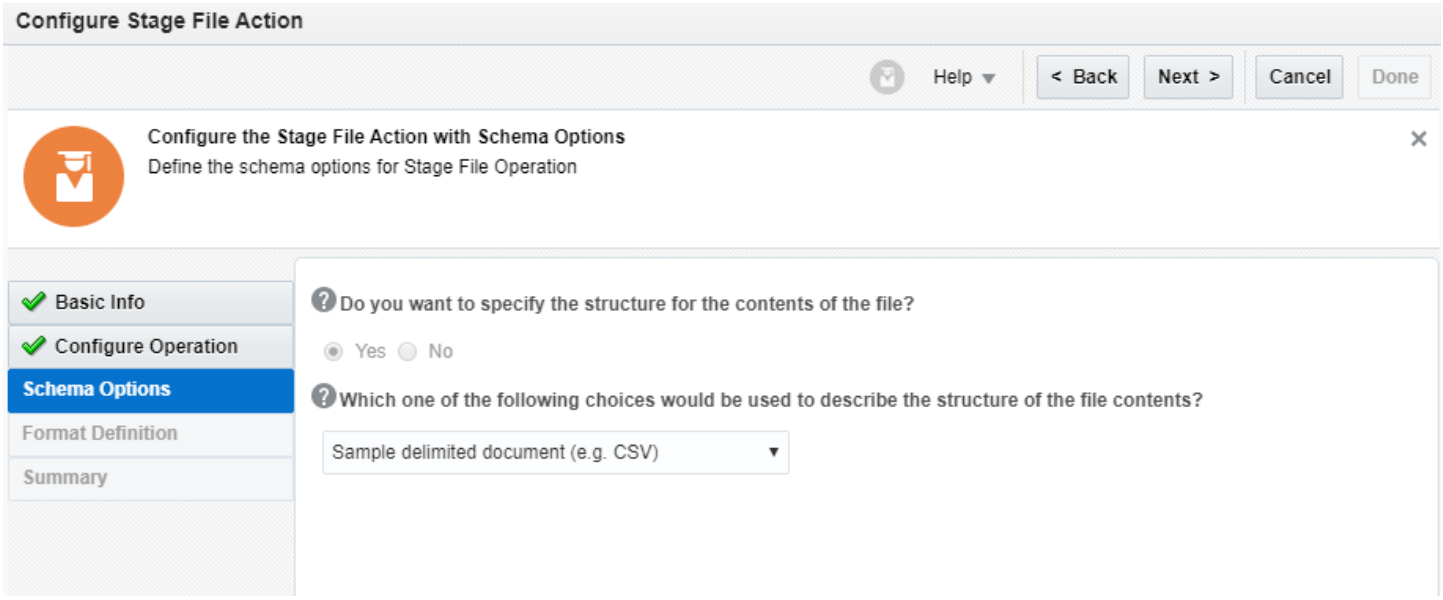
31. Click on Actions → Drag and Drop the Stage File activity after DecodeResponse activity
32. Enter Basic Info as per the below screen and click on Next



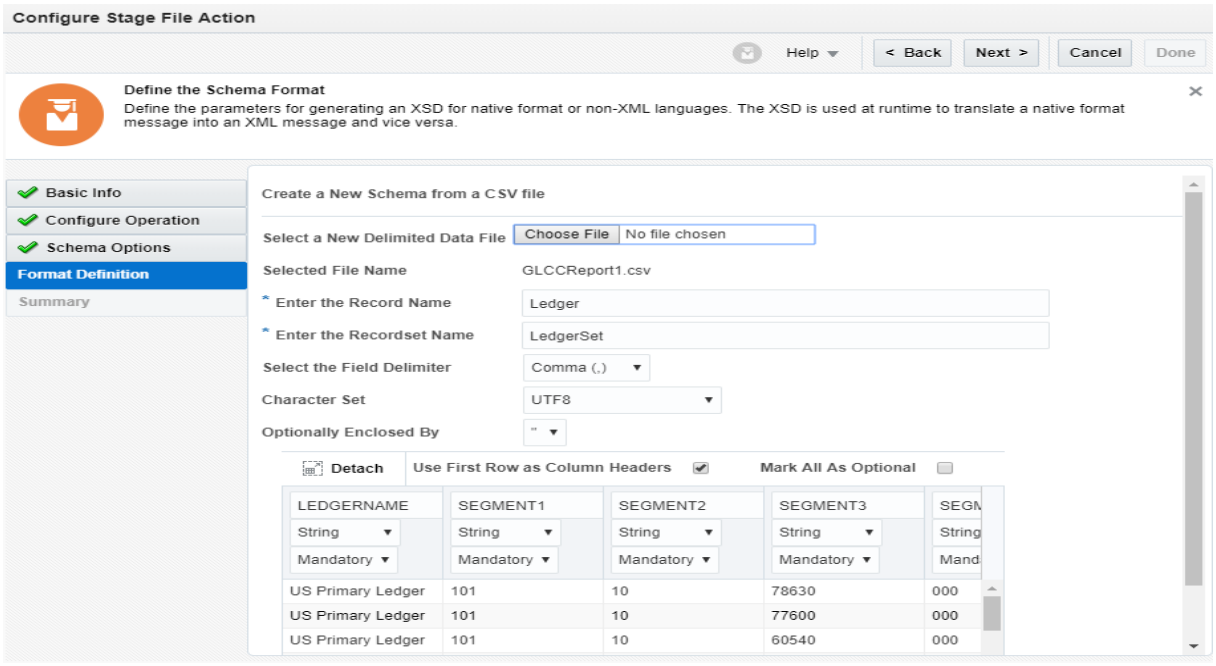
33. Enter the information as per the below screenshot and click on Next



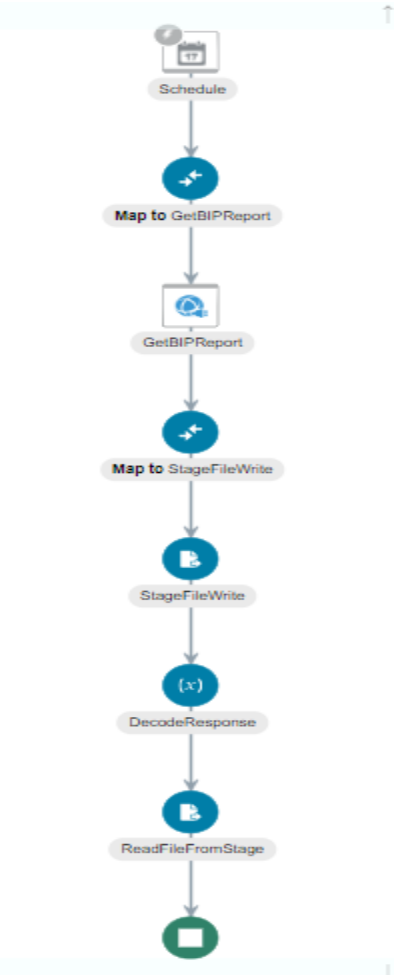
34. Keep default values as per the below screenshot and enter Next.



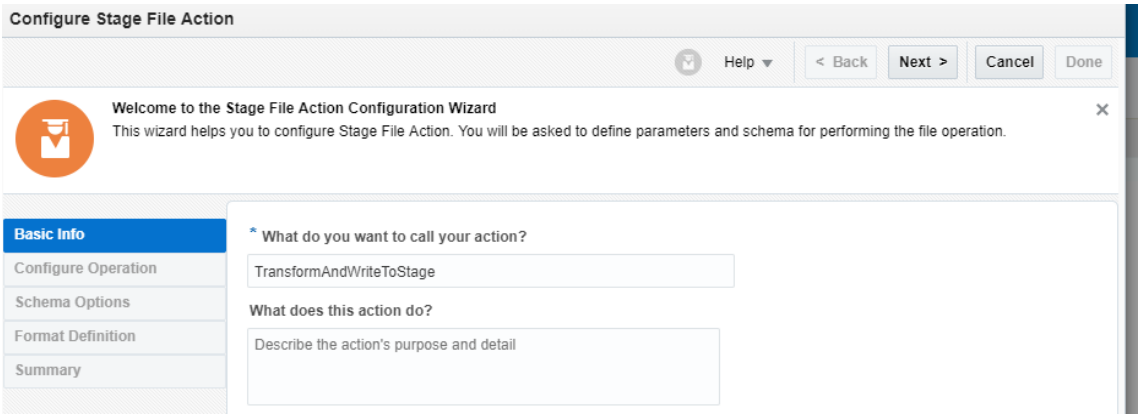
35. You must have received 'GLCCReport1.csv' along with this document. Please upload GLCCReport1.csv by clicking on "Choose File" button
And Enter Record Name and Recordset Name as per the report. Here we are entering Ledger and LedgerSet as Record Name and Recordset Name and click on Next and click on Done



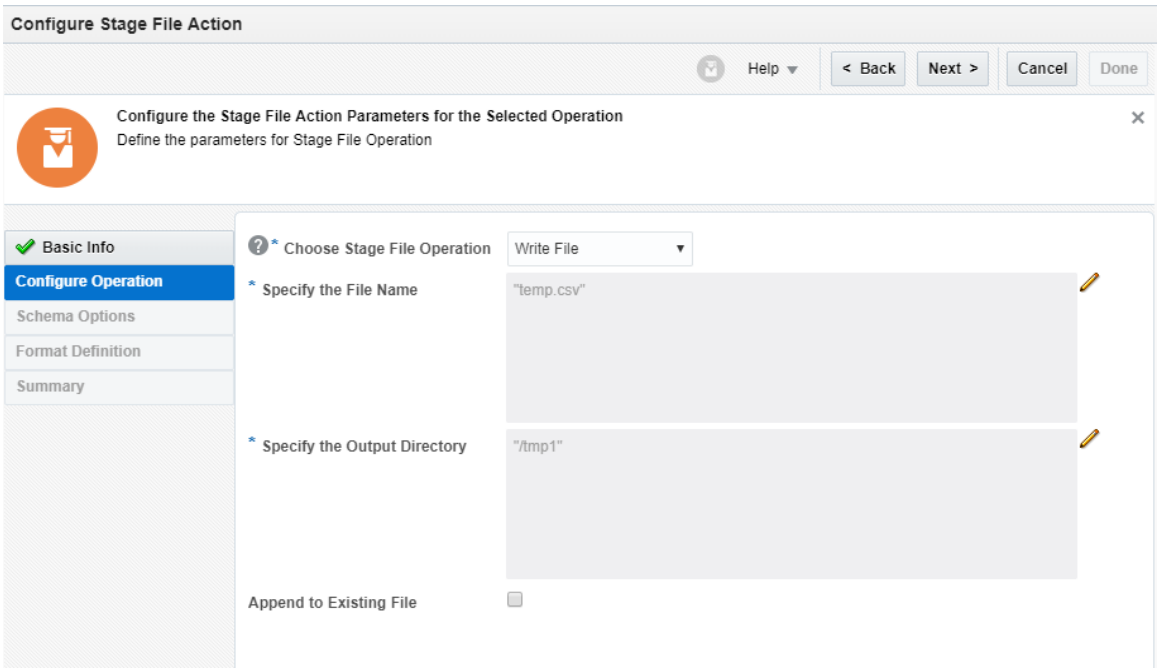
36. System displays the below screen and click on Save.



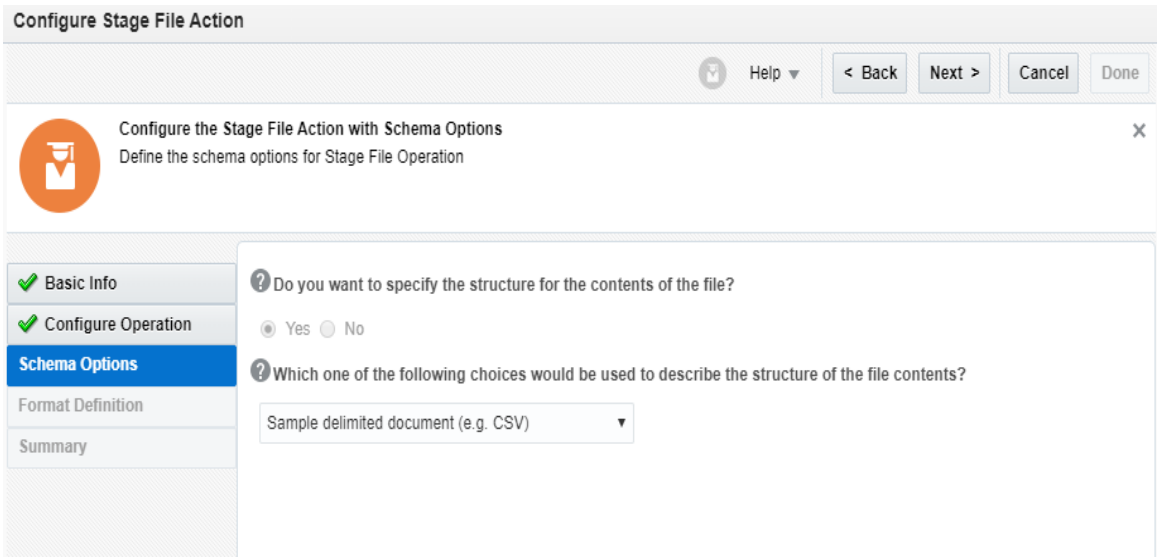
37. Click on + icon after “ReadFileFromStage” activity → Search & Select Stage File activity and enter “TransformAndWriteToStage” as Basic Info and click on Next



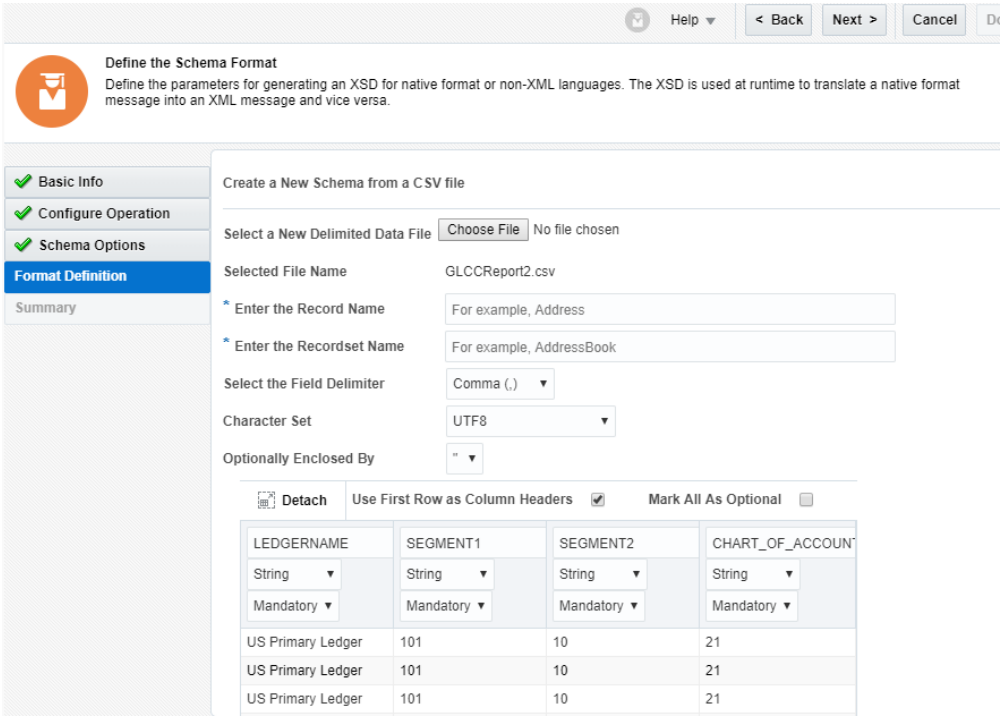
38. Enter the information as per the below screenshot and click on Next



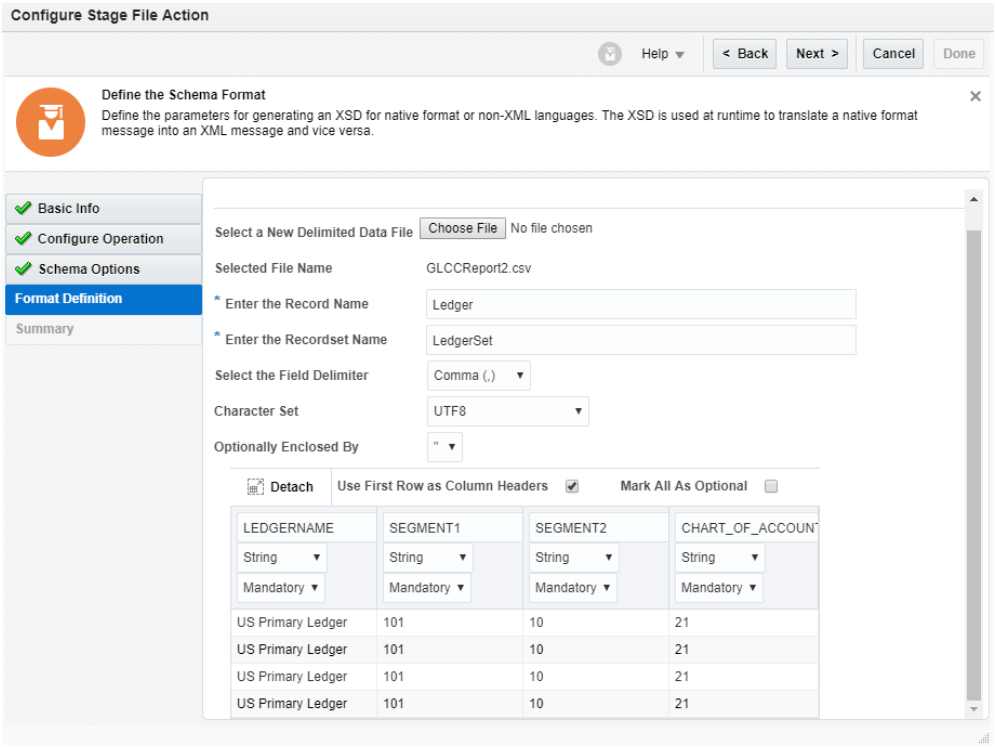
39. Keep the default values as per the below screenshot and enter Next.



40. You must have received 'GLCCReport2.csv' along with this document. Please upload GLCCReport2.csv by clicking on "Choose File" button

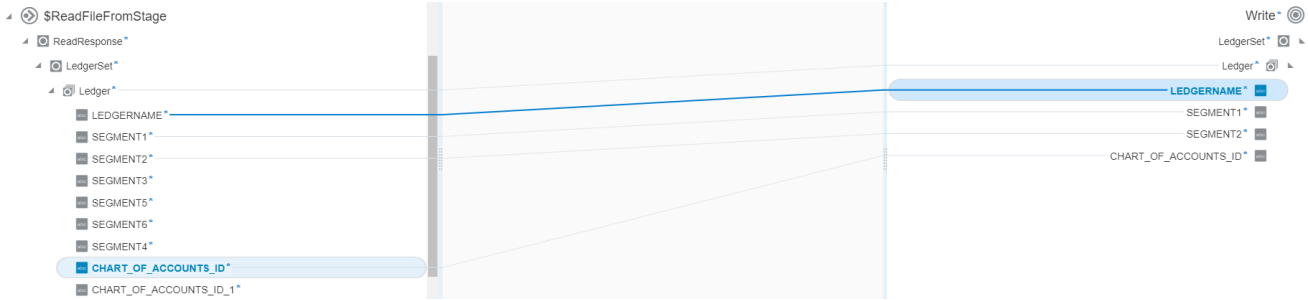


41. Enter Record Name and Recordset Name as per the report. Here we are entering Ledger and LedgerSet as Record Name and Recordset Name and click on Next and click on Done



42. System displays the below screen and click on Save

43. Edit “Map to TransformAndWriteToStage” activity and do the mappings as per the below screenshots for all the fields in the Target. And click on Validate and Click on Close.

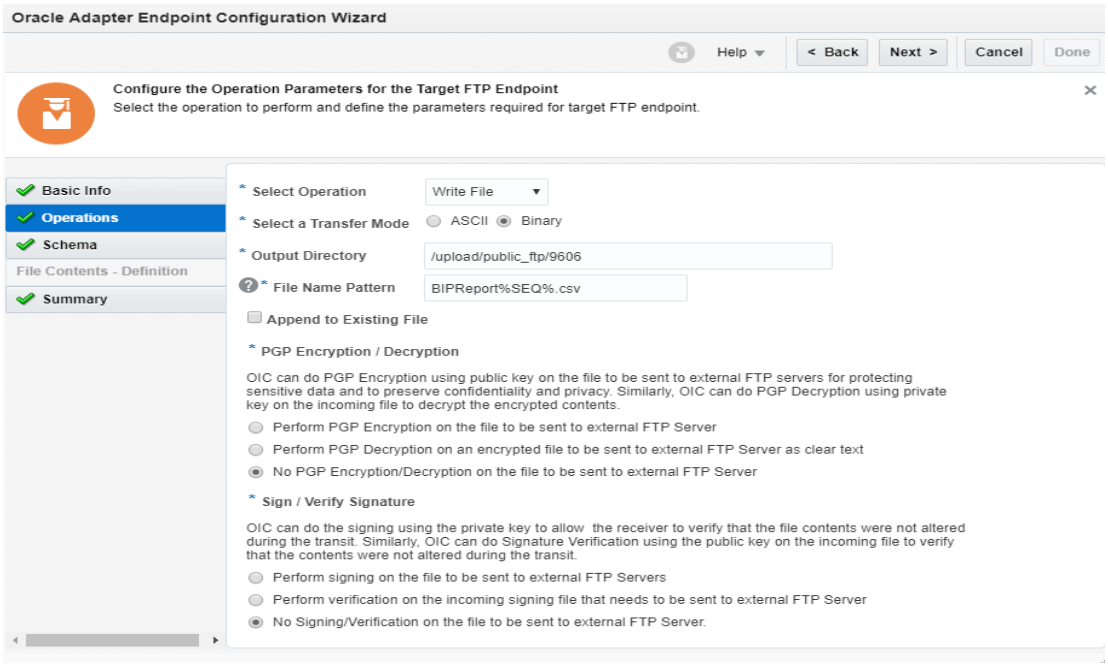


44. Click + icon after “TransformAndWriteToStage” activity and search & select FTP Conn 96 06

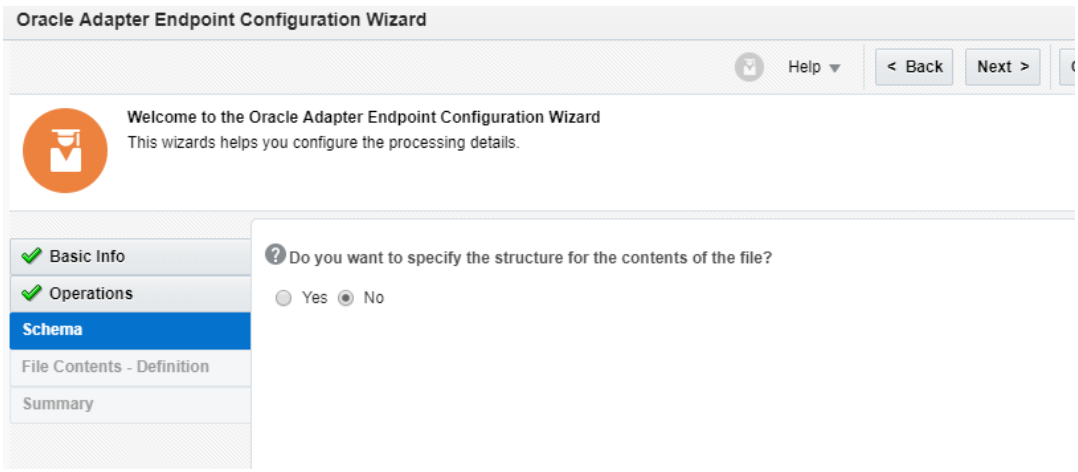
45. Enter Basic Info as “WriteFile2FTP”
46. Select the operation as “Write File” from drop down and enter Output Directory as /upload/public_ftp/<<Your initials/student id>>
    Eg: /upload/public_ftp/9606

    Enter file name pattern as “BIPReport%SEQ%.csv”

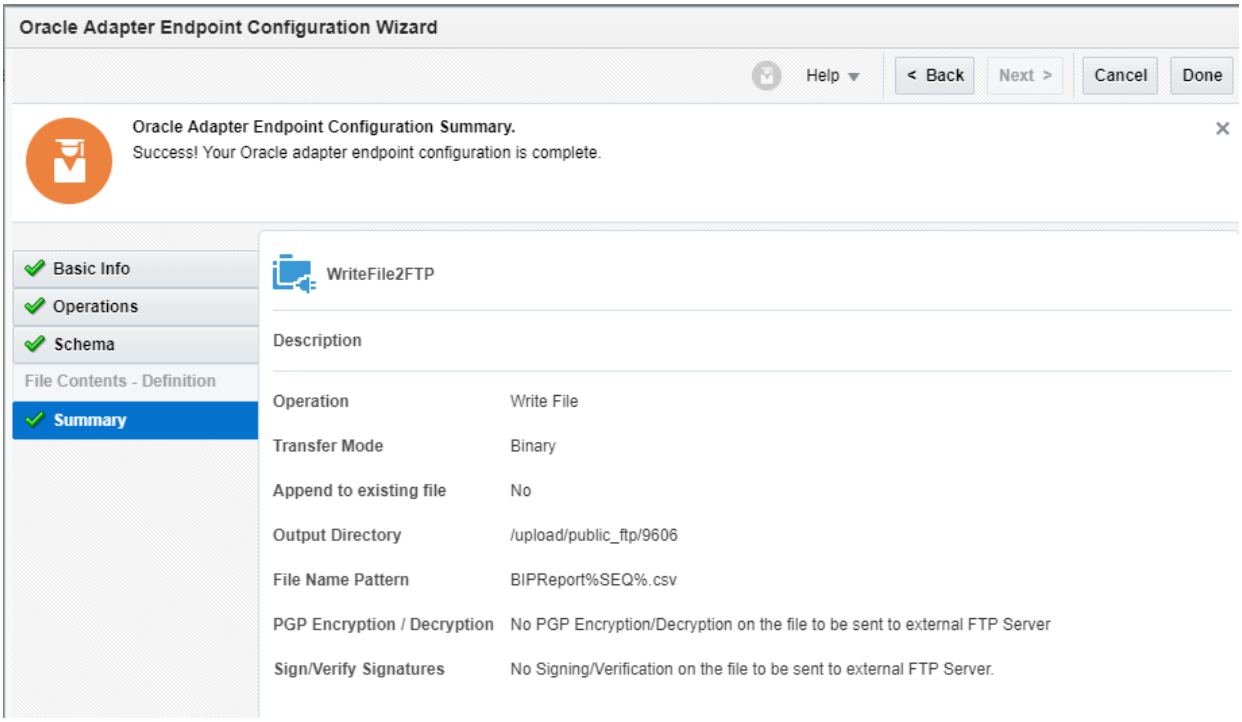
    Refer the below screenshot:



47. Click Next
48. Select No and click Next

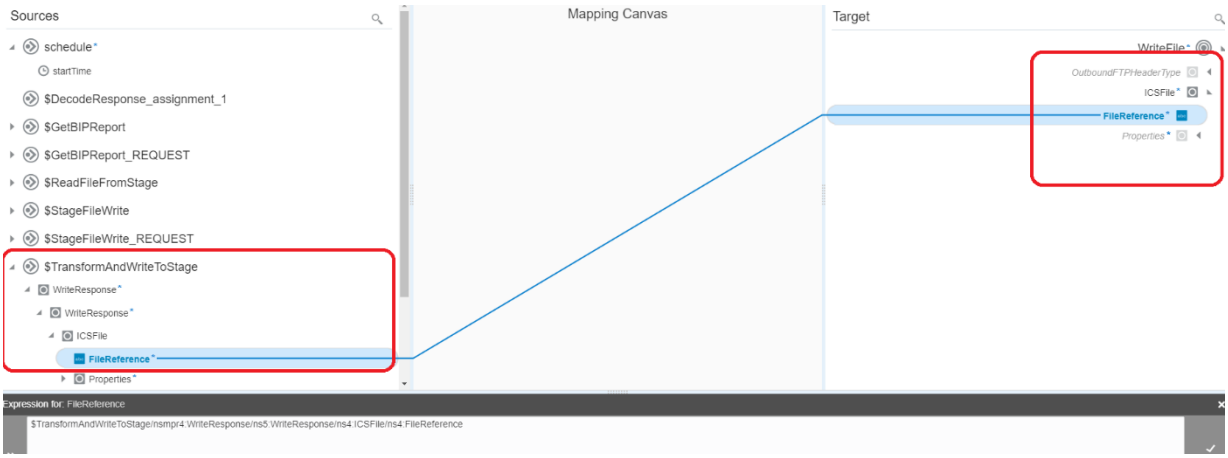


49. Review summary as per the below screenshot and click on Done

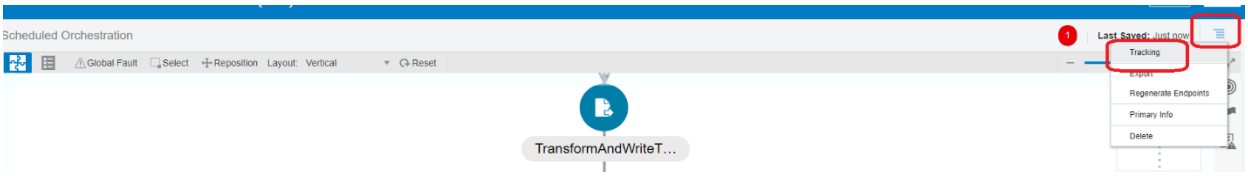


50. Edit “Map to WriteFile2FTP” activity → and map as per the below screenshot

    $TransformAndWriteToStage/nsmpr4:WriteResponse/ns5:WriteResponse/ns4:ICSFile/ns4:FileReference to WriteFile→ICSFile→ FileReference



51. Click Validate and click Close.
52. Save the integration flow
53. Click on Actions → Click on Tracking →



54. Select startTime from Source and move it to Business Identifiers by click on > symbol and click on Save
55. Click on Save to save integration flow.
56. Activate the integration, select 'Enable Tracing' option and select 'Include payload' option and click on Activate button → click on Submit Now under Actions Menu after integration flow has been activated.

57. Go to Monitors section and click on Tracking → Check the status of the integration

58. Check the file in FTP location and if you have a file in the FTP location then you have successfully completed this lab. Congratulations!!!